What is claimed is:

5

- 1. A self threading printer for producing rolls of wallpaper, comprising:
- a media loading area adapted to support a media cartridge in a position so that a media supply slot of the cartridge is closely adjacent to a pilot guide;
- a cabinet housing a media path which extends from the pilot guide to a printed media dispensing slot;
- a printhead located across the media path;
- a processor which accepts operator inputs which are used to configure the printer for producing a particular roll;
- a motor within the cabinet for advancing a media web out of the media cartridge; and one or more other motors adapted to urge the media along the path and out of the slot.
 - 2. The printer of claim 1, further comprising:
 - a slitting mechanism in the cabinet adapted to longitudinally slit the media web, to different widths, as required and in accordance with instructions provided by a user.
 - 3. The printer of claim 1, further comprising:
 - a cutting mechanism located between the printhead and the slot and adapted to divide with a transverse cut, the media web in accordance with instructions provided by the processor.
- 4. The printer of claim 1, further comprising:
 - an internal dryer, the dryer located between the printhead and the slot and adapted to blow hot air onto a printed web.
 - 5. The printer of claim 1, wherein:
- 25 the motor is responsive to the processor.
 - 6. The printer of claim 1, further comprising:
 - a well, external to the cabinet and adjacent to a printed media dispensing slot;
 - the well having at each end, spindles for aligning, retaining and removing a core, at least one spindle being
- 30 motorized to rotate the core.

7. The printer of claim 1, further comprising:

on a front exterior surface of the cabinet, a video display for displaying information about wallpaper that the printer may print.

5

8. The printer of claim 7, wherein:

the video display is a touchscreen which can receive operator selections for use by the processor.

- 9. The printer of claim 1, wherein:
- the media cartridge resides in the loading area with a handle accessible through a service door which provides access to the area.
 - 10. The printer of claim 9, wherein:

the media cartridge loading area further comprises one or more empty locations where a media cartridge can be stored.

15

11. The printer of claim 1, wherein:

the printhead is mounted on a rail on which it slides into and out of a printing position across the path.

- 12. The printer of claim 11, wherein:
- the printhead is a multi-color printhead which is supplied by separate ink reservoirs, the reservoirs connected to the printhead by a number of ink supply tubes, there being a tube disconnect coupling between the reservoirs and the printhead.
 - 13. The printer of claim 11, further comprising:
- an air supply and a tube for bringing a supply of air to the printhead which supply prevents media from sticking to the printhead.
 - 14. The printer of claim 11, further comprising:
 - a capper motor, the capper motor driving a capping device;

the capping device sealing the printhead with a cap when not in use, in order to prevent contamination from entering the printheads.

5 15. The printer of claim 14, wherein:

the capper device further comprises a blotter, which moves into and out of position and which is used for absorbing ink fired from the printheads.

- 16. The printer of claim 11, further comprising:
- one or more rail microadjusters for accurately adjusting a gap between the printhead and the media onto which it is printing.
 - 17. The printer of claim 1, wherein:

the path comprises a generally straight path.

15

- 18. The printer of claim 1, further comprising:
- a pre-heater platen located under the path and before the printhead.
- 19. The printer of claim 2, further comprising:
- 20 a door which covers an opening into a lower compartment of the dryer;
 the door being moveable from a closed position which covers the opening, to an open position in which the media passes through the opening into the lower compartment and out of the compartment, also through the
- 25 20. The printer of claim 19, wherein:

the media in the lower compartment forms a catenary path in the compartment.

21. A self threading printer as claimed in claim 1 wherein the media web is printed by the printhead at a rate exceeding 0.02 square meters per second (775 square feet per hour).

30

opening.

- 22. A self threading printer as claimed in claim 1 wherein the media web is printed by the printhead at a rate exceeding 0.1 square meters per second (3875 square feet per hour).
- 23. A self threading printer as claimed in claim 1 wherein the media web is printed by the printhead at a rate
 5 exceeding 0.2 square meters per second (7750 square feet per hour).
 - 24. A self threading printer as claimed in claim 1 wherein the printhead has more than 7680 nozzles.
 - 25. A self threading printer as claimed in claim 1 wherein the printhead has more than 20,000 nozzles.
 - 26. A self threading printer as claimed in claim 1 wherein the printhead has more than 100,000 nozzles.
 - 27. A self threading printer as claimed in claim 1 wherein the printhead has more than 250,000 nozzles.
- 28. A self threading printer as claimed in claim 1 wherein the printhead prints ink drops with a volume of less than 5 picoliters.
 - 29. A self threading printer as claimed in claim 1 wherein the printhead prints ink drops with a volume of less than 3 picoliters.
 - 30. A self threading printer as claimed in claim 1 wherein the printhead prints ink drops with a volume of less than 1.5 picoliters.
 - 31. A self threading printer as claimed in claim 1 wherein it is self contained and comprises:
- a cabinet in which is located a media path which extends from a media cartridge loading area to a winding area;
 - a full width digital color printhead located in the media path;
 - a processor which accepts operator inputs which are used to configure the printer for producing a particular roll; and
- 30 the winding area adapted to removably retain a core and wind onto it, wallpaper produced by the printer.

10

32. A self threading printer as claimed in claim 1 adapted for use with a media cartridge, the media cartridge comprising:

a case in which a roll of blank media may be deployed;

5 the case having two halves, hinged together, an area between the two halves, when closed, defining a media supply slot; and

the case having internally and adjacent to the slot, a pair of rollers, at least one of the rollers being a driven roller which is supported at each end, by the case, for rotation by an external motor.

33. A self threading printer as claimed in claim 1 adapted for use with a consumer tote for a roll of wallpaper, the tote comprising:

a disposable exterior in which is formed a main access flap and a pair of core access openings; and the tote having an interior in which is located a disposable core which is aligned with the access openings.

34. A self threading printer as claimed in claim 1 including a transverse cutter, the transverse cutter comprising:

a chassis having end plates;

the end plates being separated to allow a web of media to pass between them;

the end plates supporting between them a cutting blade; and

- the blade supported at each end to perform a cutting motion which begins on one side of the web and finishes on an opposite side of the web.
 - 35. A self threading printer as claimed in claim 1 including a slitting mechanism, the slitting mechanism comprising:
- a chassis having end plates;

the end plates being separated by a transverse portion of the chassis to allow a web of media to pass between them;

one or more rotating slitting shafts extending between the end plates, each shaft having one or more slitters arranged along its length, each slitter having a cutting edge; and

the slitting mechanism selectively engageable to either enter or not enter a path followed by the web according to an input provided by an operator of the printer.

- 36. A self threading printer as claimed in claim 1 including a dryer for a printer such as a wallpaper printer,
- 5 the dryer comprising:
 - a compartment with a top opening for receiving a media web fed from the printer;
 - a source of heated air located above the top opening for blowing heated air into the opening to dry printing on the media web.
- 10 37. A self threading printer as claimed in claim 1 further comprising:
 - a cabinet in which is located a media path which extends from a media loading area to a winding area;
 - a printhead located in the media path;
 - a processor which accepts operator inputs from one or more input devices which are used to configure the printer for producing a particular roll; and
- the winding area adapted to removably retain a core and wind onto it, wallpaper produced by the printer wherein,
 - the length and design of the roll are determined by the operator inputs.
- 38. A self threading printer as claimed in claim 1 adapted for use in a method of printing wallpaper onto aweb of media, comprising the steps of:
 - utilizing an on-demand printer comprising a cabinet in which is located a media path which extends from a media loading area to a winding area, there being a printhead located in the media path, a processor which accepts operator inputs from one or more input devices;
- using one or more input devices which communicate with the processor to capture data from an operator regarding a specification for an operator's requirements;
 - using the processor to operatively control the printer according to the data; and printing a single roll of wallpaper, on demand, according to a selected pattern.
- 39. A self threading printer as claimed in claim 1 for use in a method for operating a wallpaper printing30 business, the method comprising the steps of:

utilizing an on-demand printer comprising a cabinet in which is located a media path which extends from a media loading area to a printhead and from the printhead to a dispensing slot;

using one or more printer input devices which communicate with a processor to capture data regarding one or more customer's requirements;

5 the data comprising at least a customer selected pattern;

printing a roll of wallpaper, onto a web of blank media, on demand, according to the selected pattern; and charging a customer for the roll.

40. A self threading printer as claimed in claim 1 for use in a method for operating a wallpaper printingfranchise, comprising the steps of:

providing to franchisees, an on-demand printer comprising a cabinet in which is located a media path which extends from a media loading area to a printhead and from the printhead to a dispensing slot;

the printer having one or more printer input devices which communicate with a processor to capture data regarding one or more customer requirements, the data comprising at least a customer selected pattern:

providing the franchisee with a collection of patterns in a digital storage medium that can be read by the printer;

enabling the franchisee to print a roll of wallpaper, onto a web of blank media, on demand, according to the selected pattern; and

obtaining or attempting to obtain a fee from the franchisee.

20

- 41. A self threading printer as claimed in claim 1 adapted to produce rolls of wallpaper, the printer comprising:
- a frame in which is located a media path which extends from a media loading area to a winding area;
- a printhead located across the media path;
- one or more input devices for capturing operator instructions;
 - a processor which accepts operator inputs which are used to configure the printer for producing a particular roll; and

the winding area adapted to removably retain a core and wind onto it, wallpaper produced by the printer.

Q,

42. A self threading printer as claimed in claim 1 for use in a method for printing wallpaper onto a web of media, the method comprising the steps of:

utilizing an on-demand printer comprising a cabinet in which is located a media path, there being a full width printhead located across the media path, there being a processor which accepts operator inputs from one or more input devices and which controls the printer;

using one or more input devices which communicate with the processor to capture data from an operator regarding a specification;

running the printer according to the data;

5

printing a single roll of wallpaper, on demand, according to a selected pattern and configuration;

10 changing the pattern according to a new datum from an operator; and then printing a new roll onto the same web.

- 43. A self threading printer as claimed in claim 1 for use in a method for drying a moving web of media in a printer such as a wallpaper printer, the method comprising the steps of:
- loading the web in a path that traverses a compartment in a dryer within the printer, the compartment having an opening across the top;

allowing the moving web to descend into the compartment, as required; and blowing heated air from above the opening.

44. A self threading printer as claimed in claim 1 for use in a method of supplying a media web to a wallpaper printer, comprising the steps of:

opening a reusable case;

placing into the case a core onto which has been located a supply roll of blank wallpaper media; supporting the core for rotation within the case;

- leading a free edge of the roll between a pair of rollers and past an edge of the open case; then with the rollers located within the case and on either side of the web, closing the case and loading it into a printer.
 - 45. A self threading printer as claimed in claim 1 further comprising a printhead assembly which prints onto a moving web that follows a path, the assembly comprising:

a full width printhead located across the path;

the printhead comprising a color printhead which is at least as wide as the web;

the printhead being supplied with a number of different inks which are remote from the printhead and which supply the printhead through tubes.

5

46. A self threading printer as claimed in claim 1 further comprising:

a housing in which is located a media path which extends from a blank media intake to a wallpaper exit slot;

a multi-color roll width removable printhead located in the housing and across the media path;

the printhead being supplied by separate ink reservoirs, the reservoirs connected to the printhead by a an ink

supply harness, there being a disconnect coupling between the reservoirs and the printhead;

one or more input devices for capturing operator instructions;

a processor which accepts operator inputs which are used to configure the printer for producing a particular roll.

47. A self threading printer as claimed in claim 1 adapted for use with a consumer tote for a roll of wallpaper, the tote comprising:

a disposable exterior in which is formed a main access flap and a pair of core access openings;

the tote having an interior in which is located a disposable core which is aligned with the access openings;

both openings exposing a moulded coupling, one coupling attached to each end of the core, at least one of the

20 couplings being a driven coupling and adapted to engage a driving spindle that rotates the core.

48. A self threading printer as claimed in claim 1 further comprising a removable printhead assembly which prints onto a moving web, the assembly comprising:

a full width stationary printhead located on a rail along which it slides for service and removal;

a number of replaceable ink reservoirs which supply the printhead with different inks;

the printhead comprising a color printhead which is at least as wide as the web; and

the printhead being supplied with the different inks through tubes which can be disconnected so the printhead

may be removed.

49. A self threading printer as claimed in claim 1 for producing wallpaper on-demand via a method comprising the steps of:

utilizing an on-demand printer comprising a cabinet in which is located a media path which passes a printhead on the way to a dispensing slot;

5 selecting a pattern and a configuration;

using one or more printer input devices which communicate with a processor to input the pattern and the configuration; and

printing a roll of wallpaper, onto a web of blank media, on demand, according to the selected pattern and configuration.